

Mini-Project

ARISE 2020: ECE Machine Learning Lab

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Timeline for Mini Project

- 10:00AM - 11:00AM Review Multiclass Classification
- 11:00AM - 11:30AM Find or build your own Multi class classification data set
- 11:30AM - 12:30 Visualize and understand your data
- 1:00PM - 1:10PM Identify the algorithm you want to use on your data set (think about it during lunch)
- 1:10PM - 2:00PM Train and validate your model, verify accuracy on test set
- 2:00PM - 3:00PM Prepare presentation
- 3:00PM Presentation

Rules: Mini-Project

- Your dataset should not be a readily available machine learning dataset. Avoid websites like *uci*, *kaggle* etc
- Your dataset needs to be approved by instructor.
- Both the team members should contribute equally.
- Should present for 8-10 minutes.

Presentation Template

- Slide 1: Title and introduction
- Slide 2: Explain your data set and cite your data
- Slide 3: What algorithm have you chosen and why?
- Slide 3: Your model and loss function
- Slide 4 & 5: How did you train your model? (did you use K-folds? packages, choice of hyper parameters, etc). Model performance on training set?
- Slide 6: Model performance on test set
- Slide 7: Challenges and learning
- Slide 8: Conclusion

Thank You!

- Next Week: More Deep Learning
- Have a fun weekend!
- Revise Revise Revise!